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Recommended Citation

University of Central Florida, "The UCF Report, Vol. 11 No. 20, April 12, 1989" (1989). *The UCF Report*. 358.
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◆ UCF REPORT

Volume 11, Number 20

Special Edition For Faculty, Staff and Students

April 12, 1989

UCF draws more of Florida's top scholars

If the old saying "things get better with age" is true, this year's incoming freshman scholarship class serves as an excellent example. Over the past five years, the number of National Merit Scholars at UCF has increased by leaps and bounds and the average SAT score has skyrocketed.

"Each year I look at the SAT scores and say, 'We just can't do any better than this,' but each year the scores keep improving," said Lawrence Tanzi,

assistant dean for undergraduate studies. Tanzi is also responsible for the recruitment and guidance of scholarship students.

Five years ago, UCF enrolled one National Merit Finalist and the highest SAT score was approximately 1250. This fall UCF has accepted 25 National Merit Finalists and the average SAT score is 1299. Several incoming freshmen have scores in the 1470-1500 range.

UCF will also add well over two dozen

valedictorians and salutatorians to its impressive list of fall enrollees. These top students boast high school grade point averages as high as 4.6 on a 4.0 scale. Advanced placement and gifted classes are weighted more than regular high school courses thereby allowing students to exceed the standard 4.0 scale.

With the recruitment process still in full swing, UCF has received enrollment commitments from 98 top graduating

high school seniors. In addition, invitations to attend UCF have gone out to approximately 80 High Achieving Students (HAS). These students must have at least a 3.5 grade point average and 1200 SAT score to receive admission with distinction. They get scholarship student privileges; however, they are not admitted on the scholarship program.

According to Tanzi, the majority of the students are still coming from the local area. "The main reason is because UCF doesn't have enough dorm space to facilitate more out-of-state students," he said.

Tanzi continued, "We are, however, expanding our recruitment perimeters, and this has led to enrollment commitments from students in North and South Florida."

Scholarship students from as far north as Maine, Pennsylvania and Montana will be attending UCF in the Fall, as well as students from Colorado, Oklahoma, Montana, Indiana and Kentucky.

UCF is second in the state in terms of having the most National Merit Scholars and Finalists. A total of 68 students, not including the 25 to enter UCF in the Fall, have chosen this university to continue their education.

These outstanding students receive scholarship offers from universities around the country. What is the attraction to UCF? According to Tanzi, there are a number of reasons students are interested in UCF.

"First and foremost, we have a lot to offer. UCF has a good reputation; we have received national attention in various publications and UCF has just been moved up to 'very selective status' in *Barrons Guide to the Most Prestigious Colleges*. Many students are attracted to the personal touch that we give to our scholarship students which they don't get at other places," Tanzi explained.

Another attraction to UCF is its size. "UCF does not participate in 'herd education,' putting 700-1,000 students in one classroom," said Tanzi.

Aside from the educational advantages and individual attitudes they receive at UCF, the area serves as a major attraction to students. "Orlando is the number one tourist destination in the world; it is both educationally and physically safe," added Tanzi.

To account for the increased number of applications, UCF moved the application deadline to March 15, more than four months earlier than last year's deadline.

Higher application standards were also set due to the flood of applications. John Bush, university registrar, explained, "We set an institutional standard of a minimum 3.0 grade point average and 1000 SAT score." This is below the Board of Regents' (BOR) standards: 3.0 average and 840 SAT. Students who meet the BOR requirements but not UCF's requirements are placed in an application pool and may be admitted if there are available openings in the freshman class. "These students are encouraged to raise their grades or retake the SAT to raise their scores," said Bush.

"When admissions closed earlier than previous years, it made people take notice. Once that happened, they realized how good UCF really is," he said.



Honors Programs offer challenge to top students

Central Florida's dynamic growth and UCF's maturation into a major urban university are two reasons the school's Honors Program has grown to include more than 160 students, said Dr. Mark Stern, Honors director.

Stern said the Honors Program is designed to prepare students to enter graduate and professional schools or begin careers in business or public service. Honors Students, he said, are taught a wide variety of topics in three types of courses.

First, is the Honors Symposium, which involves lectures, performances and readings on a wide variety of subjects by faculty across the University. This semester some of the symposium topics included: "What is Good Teaching," "Molecular Biology," "Artificial Intelligence," and a spring trip to the Ringling Museum in Sarasota.

The second type of course available to Honors students are the Honors Seminars, which Stern said are usually team-

taught courses. Some of the topics covered recently include "Japanese Prosperity," "Mass Media Ethics," and "The Global City."

The third course is the Honors Lecture, which offers a broad-based exploration of significant issues within a discipline and is usually given by a distinguished member of the faculty. Some of the topics scheduled to be covered next year include Physical Science, Mathematics and Art.

Honors students say they like the program for many different reasons. "There is more reading and extensive discussion in class. You get a bigger picture of the subject. I feel I am learning a lot more," said Monica Vondruska.

Another student, Nancy Pack said: "The Honors Symposium affords an excellence and variety of information not ordinarily available to students...contributing to a broader individual base of knowledge."

"Professors in Honors courses have a different teaching method...there is more interaction between students and teachers," says Honors student Kim Causey. Stern said students also like the fact that they are exposed to "high level" work that Honors courses offer.

"Students who have been exposed to this kind of high level instruction leave UCF with a very well-rounded education," Stern said.

Stern said one reason why more teacher-student interaction is possible is because Honors classes are much smaller than regular college courses.

Not just any student can get into the Honors program. In fact, the requirements are a bit tough. A student must have a high school grade point average of at least 3.0 and an SAT score of 1400 or a combined ACT score of at least 33 to meet the minimum admission requirements, but because UCF has grown so quickly in the last decade, Stern said

more and more students who meet the Honors program requirements are now attending UCF.

Once in the Honors program, students can choose from two tracks: Honors in the Major and University Honors. Honors in the Major encourages students to carry out original and independent work. Each student must complete an Honors thesis or project under the guidance of a faculty member. "The mentoring process between faculty members and students is at the core of Honors in the Major Program," Stern says.

The University Honors track, on the other hand, provides freshman and sophomores with classes that are unique in the UCF curriculum. Stern says these classes are interdisciplinary, integrative, and often team-taught.

"UCF's Honors Program is designed to combine the atmosphere of a small college with the resources of a major research university," Stern said.

Pegasus-- a symbol for the ages

Choosing a university seal - the symbol that sets one school apart from others - is no simple task. In UCF's case, the job took 26 months. From the very first suggestion, submitted by a Winter Park man in February 1966, to the unveiling of the present seal on April 5, 1968, it was a task without precedent for those who became involved in the process.

Retired Air Force Maj. Forrest O. Shoup started the ball rolling in a letter to Gov. Haydon Burns in which he enclosed his version of a seal for the new university. Over the next two years, nearly four dozen designs and nearly 70 different color combinations were considered. Letters went to every college and university in Florida requesting copies of their seals. The motto, "Reach for the Stars," eventually served as the inspiration for the seal. It first appeared in a talk written and delivered by Millican in 1962. The phrase came to him, he recalls, while he was enroute to Tennessee by air on a "night that was so clear the stars sparkled."

Stars were used in various combinations by designers, and at one time were removed completely, but a poll of interested parties at the university and in the community made clear that stars should be a part of the seal. Pegasus, the winged horse of mythology, was added to depict both contrast and connection between the old and new, the humanities and the sciences.

All the while Millican served as the middle man between designers Jim Shattuck, an Orlando advertising executive, and Norman VanMeter, a creative designer with General Electric in Louisville, Kentucky. The pair are credited with creating the seal as it now stands.

The first copies of the seal, suitably inscribed with a message noting the occasion, were presented by President Millican to each member of the staff and faculty in 1968. The first two copies went to Sonia Cirocco, now a senior clerk in the registrar's office, for her work in coordinating the quest, and to Milly Kennedy, now the president's executive assistant, for "her patience in listening, suggesting and selection..."



First students on campus were pioneers; the fun was helping to establish traditions

The first students to venture onto campus in the fall quarter of 1968 were, in many ways, pioneers. Besides christening a brand-new curriculum and exercising care to avoid the occasional snake which had not yet yielded territory, they accepted the responsibility of shaping traditions for a new university. In the early days of FTU, the Village Center served as the hub for student activities. By the beginning of the second quarter, the student government was busy forming a senate; the first sorority, called Tyes, had begun soliciting members; and the Pegasus Pilots flying club added its name to the growing list of stu-

dent organizations. By the spring quarter of '69, the University's broadcasting club announced that a low-power radio station, WFTU, would soon offer programming on campus.

Choosing a suitable mascot for the new University, however, proved to be a two-year trial. Committees were formed; polls were conducted; and suggestions were solicited from faculty, staff members, and students alike. Mascot zealots submitted elaborate drawings accompanied by long-winded statements about why their nomination should prevail. Entries included a Citronaut, Olym-

plans, Flying Horsemen, Sun Devils, and nearly every mammal known to man. One inventive student group campaigned for Vincent the Vulture, to no avail. When the final vote was taken, Knights of Pegasus vanquished other pretenders.

Today, the UCF Student Center still acts as the headquarters for disseminating information on a much enlarged roster of student clubs and organizations. Current students are served by some 28 academic and honorary organizations, several religious and international groups, as well as 20 social fraternities and sororities.

Founders' Day salutes faculty, students, friends

The University of Central Florida will take a break from its regular classroom routine on the afternoon of April 12 for an inaugural Founders' Day program that honors excellence in faculty teaching and research and student scholarship.

The Founders' Day convocation, slated for 2:15 p.m. in the Gymnasium during a 2:00-4:00 p.m. period of suspended classes, is named in honor of the men and women of Central Florida "who backed the creation of the University and whose vision of a university dedicated to excellence has been fulfilled by the

achievements of faculty and students," according to D. R. McGinnis, vice president for university relations, whose division is spearheading the event.

Robert Atwell, president of the Ameri-

can Council on Education, Washington, D. C., will be the featured speaker in a program about an hour long that also will be highlighted by the announcement of the winners of the awards for "University

Excellence in Teaching" (Teacher of the Year), "Distinguished Researcher - 1989" (Researcher of the Year) and "Excellence in Library Science." In addition, faculty members who will have logged 20 or more years of service by the end of the Spring term, will be individually recognized for their contributions to the University.

Students to be feted include the valedictorians of the various colleges and the Liberal Studies Program back to the Spring, 1988, Commencement as well as the seniors who maintain the highest grade point average in their college class or Liberal Studies Program and had filed their intention to graduate within the posted deadline. The Central Florida Research Park will present its "Celebrate Excellence" awards for student research and Joan Ruffier, chairman of the Board of Regents, will acknowledge all attending Dean's List students following brief remarks on the excellence theme.

President Trevor Colbourn will offer closing remarks. Other participants include President Emeritus Charles Millikan, Provost Richard Astro, Vice President for Research Michael Bass, Library Director Anne M. Allison, Central Florida Research Park Executive Director "Woody" Maggard and Rev. Lloyd Larsen, chairman of the Campus Ministry. Gerald McGratty, President, University of Central Florida Foundation, Inc., will serve as master of ceremonies.

The University Concert Band, under the direction of Richard Greenwood, will perform musical selections at the convocation. A reception will follow the program in the rear courtyard of the Education Building.

Speaker brings record on advocacy

Robert H. Atwell, president of the American Council on Education (ACE) and principal speaker at the Founders' Day ceremonies, has been an outspoken advocate for higher education on such issues as greater federal funding, increased educational opportunities for minorities and the competitiveness of the American economy.

As head of ACE, an umbrella organization for the nation's colleges and universities, Atwell serves as the national spokesman for a membership of more than 1,400 degree-granting institutions and over 200 educational associations. He has held the post since December, 1984, and previously served for six years as the organization's executive vice president.

A native of Pennsylvania, Atwell received his bachelor's degree from the College of Wooster and did graduate work at the University of Minnesota. Following a tour in the U.S. Army he worked in different federal agencies, including the Office of Management and Budget, the State Department and the National Institute of Mental Health.

From 1965 to 1970, Atwell was vice chancellor for administration at the University of Wisconsin, Madison. From

1970 to 1978, he served as President of Pitzer College, one of the Claremont group of colleges in Southern California.



ROBERT ATWELL

UCF's search for a president

At 9 a.m. this Friday, Chancellor Charles B. Reed will recommend to the Board of Regents Selection Committee his choice for UCF's third president.

The committee, meeting in the UCF President's Dining Room, will vote their choice from five candidates and a full BOR vote will be taken by telephone conference call.

UCF will then have a president to succeed Trevor Colbourn this August, when he expects to step down, depart on sabbatical, and later return to campus to teach.

As in all steps in the selection process, this Friday's meeting is open to the public.

Research means millions, recognition for University

University research is big business. At the University of Central Florida, researchers last year attracted \$16 million in grants and contracts. The prospects for the fiscal year that ends June 30, 1989 are an estimated \$22 million. The figures signify a surge in funding generated in part by the impact of high tech research upon major corporations who like what they see in UCF laboratories.

The history of research at UCF spans very few years. In that short while -- the first grant was awarded by NASA on April 18, 1968 for \$12,500 -- faculty in each of its Colleges have accounted for more than 2,900 grants and contracts amounting to \$91,112,752.

The reputation of UCF researchers over the years has drawn funding from three main areas: federal agencies, state agencies and private sources. Nearly \$13 million of the 1988 total came almost equally from federal and private sources.

A major portion of funding in the past few years has been going to the Institute for Simulation and Training (IST) and the Center for Research in Electro Optics and Lasers (CREOL). The two facilities are expected to account for just under half of this year's anticipated funding, said Dr. Michael Bass, UCF vice president for research. He added that the growth in research funding is spreading throughout the University's activities and is "a sign of overall quality."

IST is designed to help meet the computer simulation and training needs of government and industry. It is one of a kind in the country to study the entire spectrum of computerized education, especially the use of computers to artificially simulate events and situations for students. A spin-off is the new Ph.D. program in human factors psychology which UCF

psychologists work closely with IST scientists in research and instruction. Since its inception, in 1982, IST has established a strong working relationship with the Naval Training Systems Center located in the Central Florida Research Park, where scientists devote much of their time to developing and testing simulation training devices used by aviation and ground forces.

Located in the Research Park as well is CREOL, one of only two or three high tech laboratories in the world able to generate, diagnose and use ultrashort "optical pulses" that help scientists understand the structure of matter and its interactions.

CREOL also will be the site of one of the world's few free electron laser laboratories, which will bring together researchers from near and far to work on the unique device that enables its users to control both the frequency and intensity of its output. CREOL researchers are also involved in developing and evaluating new laser and optical materials that are used in VCRs, compact disk players, telephones, personal computers and TV sets.

A longtime contributor to UCF's mounting stature in research circles is the Florida Solar Energy Center at Cape Canav-

eral, which for more than a decade has been the site of far-reaching studies to determine uses of solar and alternative energy sources. FSEC research includes ways to utilize photovoltaics, such as sun-powered highway signs; the use of hydrogen to power vehicles of the future; and methods of improving energy use efficiency in building design and air conditioning and dehumidification equipment.

Research takes a great many directions aside from the path to ultra high tech. A case in point are the regular economic impact studies of the Central Florida community done by the College of Business Administration. One such study warns that if area residential and commercial construction were to stop tomorrow, 25 percent of the people who work in local retail businesses would be out of work immediately.

The UCF art department has been funded for research into methods to record and catalog on video disks the collections of several Florida museums. Researchers will also develop computer software that will enable students to study the artwork with interactive computers.

Faculty in the College of Education are designing and developing a new Florida Teachers Competency Test. Nursing fa-

culty in the College of Health are conducting research on the care of Alzheimer's patients, and social scientists are studying patterns of child abuse in the U.S. and Latin America.

Not long ago, faculty in the English department generated a study of prospective employers in the area that led to creation of a technical writing degree program. Researchers in psychology and sociology joined with others across Florida to undertake an extensive study of Canadian visitors to the Sunshine State and reasons for their yearly visits. They more recently extended their research to the French-Canadian population wintering in Florida.

Meanwhile, researchers at the UCF-based Florida Sinkhole Institute continue studies of the state's land subsidence phenomena. Staff members are on call to assist local authorities when needed, and have recently prepared a series of maps that depict potential pollution sites for use by regulatory agencies, developers and engineers.

The range of research activities cover a wide spectrum and a variety of disciplines. A summary of 1988 sponsored research at UCF shows that 399 proposals were funded to represent the \$16 million received. The average dollar award per faculty member was \$25,394. The awards, large or small, show a marked increase over previous years, and represent significant growth in faculty capabilities to carry out both their research and teaching responsibilities, said Bass.

"The benefits of this interest have been rewarding to individual faculty members, the students and our society," Bass declared. "The research program has done much to enhance the national reputation of UCF for academic excellence in research and teaching."



Teacher of Year Nominees



NANCY KLINTWORTH
BUSINESS ADMINISTRATION

Nancy Klintworth

Injecting humor into the classroom from real-life situations is one way that Nancy Klintworth's teaching methods differ from the norm. Another is that she cares about her students not only academically, but personally. That is why for the second year in a row she has been nominated for "Teacher of the Year" from the School of Accounting.

"I make myself available to my students. They know they can seek me out if they have a problem," said Mrs. Klintworth, who also has a law degree. She said she tries to treat her students as equals and says that there are things she can learn from her students. "I remind myself everyday that I know more about law, but my students know more about other things," she said.

Mrs. Klintworth has been with UCF since 1985 and holds degrees from the University of Florida, the University of North Dakota, the University of North Carolina at Chapel Hill and the State University of New York. "I try to treat my students as I would have wanted to have been treated as a student," she said.

Ram Mohapatra

Ram Mohapatra's first year at UCF was difficult. UCF students, she discovered, were older than at other universities she had taught at, and they didn't have as much time to study. She also discovered that students coming to UCF needed more preparation and remedial work to handle the material in her math courses. "I found that I had to change my approach and accommodate my students," she said.

Mohapatra, educated in India, began to give more exams to identify the areas where her students were weak. And another element she brought to her classes was a concern for the student. "A teacher's job is to inspire, not only to instruct. You have got to have care and concern for the individual," she said.

It is for those reasons that Mohapatra has been nominated for Teacher of the Year from the Mathematics Department. A veteran of the American University in Beirut, Lebanon and the University of Alberta in Canada, Mohapatra has been at UCF since 1986.

Darrell Linton

Students of Dr. Darrell Linton know what to expect in their engineering classes. Hard work. If there are complaints, his response is simple: I am not willing to lower my standards of excellence to your level; instead, I challenge you to raise your standards to mine.

Since joining the engineering faculty, in 1977, he has maintained that in addition to presenting the required material, a teacher has "the unique opportunity to act as a role model, provide personal and professional guidance, and influence the lives of students for years to come."

To impress upon his students the importance of forming their own opinions -- based on engineering analysis -- and not being afraid to express them, at least once a semester Linton warns them he will give a homework assignment that is incorrect. Furthermore, if anyone discovers the mistake and asks about it, he will not admit anything is wrong. To receive full credit, classes are told they must state in their assignment what was wrong, correct it, and solve the corrected problem.

Linton uses the Challenger tragedy as an example of the need to form opinions and stick to them. "It was a case when engineering judgements went unheeded," he states.



RAM MOHAPATRA
ARTS & SCIENCES



JOYCE DORNER
HEALTH

Joyce J. Dorner

Joyce J. Dorner practices what she preaches. Her nursing students consistently give her an A plus for her extraordinary capacity to influence them by her own exemplary actions. Many students profess that she has been a role model for them. As one of her former students wrote to her: "I'd be happy if I could 'grow up' a little like you." Dorner specializes in teaching psychiatric and mental health nursing. Students particularly appreciate her role-playing methods, which allow them to resolve difficult problems in working with psychiatric patients in clinical situations. Dorner is known for establishing a learning environment that invites critical thinking.

Nationally known in the field of chemical dependency, she has carried out research projects in that field, and taught DUI classes for the State. She has also led the faculty in substantial curriculum revisions.

Before coming to UCF in 1980, Dorner taught at the College of Nursing at the University of Florida. She has also conducted staff development instruction as part of her clinical and administrative roles at local mental health centers and treatment centers for substance abuse.

John Whitney

Of those who are nominees for Teacher of the Year, John Whitney can truly say he is in tune with his students. As a member of the music faculty since 1982, he has generated more than curriculum in his continuing efforts to recruit talented young musicians for UCF's programs.

And as the conductor of the UCF Community Symphony Orchestra, assistant conductor of the Brevard Symphony, and director of the renowned UCF Jazz Lab, he manages to instill infectious enthusiasm and commitment.

For Whitney, after 25 years as a teacher, "the most enjoyable student is one whose curiosity and sense of wonder still functions. Discovering students with these characteristics is one of the great joys of teaching."

Successful teaching, he continues, is, like parenting. It requires "setting a high standard and tenaciously insisting upon quality results. My goal in music performance is an impossible one; to achieve perfection."

A quote that hangs on his office wall gives a clue to Whitney's philosophy: "To try may be to die, but not to care, is never to be born."



JOHN WHITNEY
ARTS & SCIENCES



DARRELL LINTON
ENGINEERING



WOODROW RICHARDSON
BUSINESS ADMINISTRATION

Woodrow Richardson

Woodrow Richardson does not fill his business management classes with lectures, and just showing up for class means nothing grade-wise. In order to earn high marks from Dr. Richardson, students have to participate aggressively in class, and they do--eagerly. Encouraging class participation has ignited a spark in Richardson's students to learn as much as they can by getting involved instead of just scribbling down notes.

"I put a heavy emphasis on class participation. Just attending accounts for nothing. I put a lot of burden on my students to seek me out, which they do," Richardson said. One of the ways Richardson's students get to participate is through case studies each semester where students assume the roles of corporate executives and are given the task of solving difficult business decisions.

Teacher of Year Nominees



HENRY HAGEDOORN
ENGINEERING

Henry Hagedoorn

Henry Hagedoorn was once asked the question, "What does an engineer do?" His answer was simply this: "We solve real world problems such as how to build a bridge, design a car, or fix a broken knee bone." Bringing "real world" problems and applications into the classroom is just one of the methods Hagedoorn uses to teach his students such things as computer aided design, static dynamics and machine design.

Hagedoorn, born in Bandoeng in the Netherlands East Indies, is one of three outstanding College of Engineering faculty members who have been nominated for Teacher of the Year. He has been on the UCF faculty since September 1972 and he earned his Ph.D. from Cornell University.

Even though the engineering technology is changing at a blinding pace, Hagedoorn says that is one reason he finds his job so challenging. "I don't look at it as overpowering. There are so many things an engineer can do today that were unheard just a few years ago," he said.

Mike Morris

If there were 25 hours in a day, Mike Morris would be the first to use the bonus hour. Since arriving at UCF in 1984, a year after being awarded his doctorate by VPI/SU, he has established a reputation for involvement. "I am continually awed at the energy he invests in the classroom, supervising interns, overseeing independent studies, meeting with students, developing new courses, and counseling students on careers," a fellow member of the marketing department exclaimed.

His work with students is reflected in his role as advisor to the unique Entrepreneurship Club, which he helped found, and his selection as 1988 outstanding faculty advisor nationally by Pi Sigma Epsilon sales and marketing fraternity.

His own views on teaching involve two key responsibilities: one to students, the other to the University. "With our students, the challenge is to raise their general level of expectations. We must encourage them to set personal standards of performance which make them stretch beyond what is acceptable or 'good enough.' We must make them aware that education is not easy or formula-based. I believe we are here to help our students find themselves."

Robert Rivers

Although Robert Rivers teaches art, his techniques in the classroom are more akin to those of a football coach. For each class, he clearly outlines a training goal and demonstrates qualitative standards. One student describes the classes as "intense, invigorating, and, more importantly, productive." And like a good coach, he challenges students to do their best. According to a former student, Rivers not only teaches line, composition, and technique, but he "brings students to the edge of their capabilities."

Rivers never asks more from his students than he does himself. He often works alongside his students, demonstrating his own high-energy style of tackling any task. His prodigious efforts as an artist act as a further catalyst to his students. Professor James Rittner of the University of Wisconsin ranks Rivers as one of the best printmakers in the country and says that one of Rivers' strengths is that he teaches by example.



HAVEN SWEET
ARTS & SCIENCES

Haven Sweet

Haven C. Sweet has a reputation for changing students' minds. When UCF students reluctantly enroll for one of his biology classes required for non-biology majors, they expect to be bored. Instead, they're surprised. As one student put it: "I didn't expect all this from a biology class." Students say they learned information that will help them the rest of their lives.

Sweet also has a reputation as being the department's computer wizard and a specialist in computer applications on a national level. He reviews and tests computer programs prior to their commercial release for Borland International. A grant he received for computers allows him to cut costs, time, and staff support while providing a rewarding experience for students during laboratory work.

After completing his doctorate's in plant physiology at Syracuse University and post-doctorate work in photobiology at Brookhaven National Lab, Sweet worked for three years as a senior research analyst for a company in Texas. He has been a professor at UCF since 1971. He has since developed a number of devices and procedures for use in his specialties, including a plant growth chamber for the space shuttle.

Pat Bishop

You won't need a computer to find the number of women graduates in the College of Engineering, Class of 1971. The magic number is four, one of whom is celebrating her 10th year as a faculty member where it all began.

When she was named by the National Society of Professional Engineers as 1984 Young Teacher of the Year, Pat Bishop expressed her love of engineering and teaching. "I always intended to be a teacher," she declared. "So this is really a perfect job for me, I like the freedom and the fact that I keep continually learning."

Her views haven't changed. Since obtaining her doctorate from Purdue in 1976 she has won national recognition for her work in thermodynamics and energy conservation. She also has long been a volunteer with the public school Dividends and ADDitions programs, in Seminole and Orange counties, and never passes up an opportunity to discuss careers in engineering with younger students and their parents.

José Fernández

José Fernández is more than a history professor. He's also a foreign language professor. He holds a joint appointment at UCF, with two-thirds of his time devoted to history and one-third to foreign language. Fernández is also the director of the Latin America Area Studies and the acting director of the International Studies Center. Does his heavy teaching load and his responsibilities as director of these programs slow down his research and writing schedule? Obviously not, considering he has published nine books and 17 articles and is currently working on three new study workbooks.

Getting his students interested in the topic of discussion is also an important part of his job; and, according to one of his students, he does that quite well. "Dr. Fernández is one of those 'once in a lifetime' teachers that has mastered the skill of sparking his students' interests in his classes. He has such a love for his fields of knowledge that his students can't help but get enthused in the material."



MICHAEL MORRIS
BUSINESS ADMINISTRATION



PATRICIA BISHOP
ENGINEERING



ROBERT RIVERS
ARTS & SCIENCES



JOSE FERNANDEZ
ARTS & SCIENCES

Teacher of Year Nominees



PHILIP SCIORTINO
EDUCATION

Philip Sciortino

Philip Sciortino gets personal satisfaction from preparing others for a career in a "helping profession." His satisfaction is evident through his devotion and constant efforts to "upgrade his courses through frequent analysis and evaluation." He co-authored a text in January devoted to the improvement of teaching. A colleague noted, "The book took more than three years to write. This evidences both his expertise as an outstanding teacher and his dedication to teaching."

Students and colleagues praise him for "heightening their interest with a clear display of enthusiasm and love for teaching." One of his peers explained, "He teaches a course which involves instructional technology. Each week he can be found helping students in the computer laboratory—not part of his teaching assignment. He helps them reach course goals, and having reached those goals, he encourages students to excel."

Sciortino is an assistant professor in the Department of Educational Foundations. He has been a member of the UCF faculty for 15 years and teaches courses in supervision research, human development, social factors in education, teaching strategies and applications of technology in education.

Seth Elsheimer

Difluorodiodomethane. Many students may never know, understand, or even care what this is, but students in Seth Elsheimer's organic chemistry classes do. One of his students said, "He makes learning fun and encourages his students to reach their academic potential." A colleague explained, "Teaching is much more than a job to him; it is an opportunity to share with his students his knowledge and love of chemistry."

When asked how he helps students understand difficult material, Elsheimer explained, "I remember when I was in school learning this stuff; I made a promise that when I became a teacher I would make learning fun. I really love chemistry, and I teach it the way I understand it: in simple terms." He also encourages students to "want to know." "Students won't learn if they don't think the material is important, no matter how good the teacher presents it."

Teaching has been a "lifetime ambition" and a "childhood dream come true" for Elsheimer, who chose to teach at UCF because he knew "this was a place where things were happening." He explained, "This school is growing, and I wanted a chance to grow with it and contribute as much as I possibly could."

Roberta Driscoll

Program coordinator; professor; author; counselor; adviser. Of all her titles, the one most used by students to describe Roberta Driscoll is not in the preceding list. They call her something better: a friend. "[She] conveys a sense of caring about her students' intellectual, professional and personal growth. Most students don't really see her as a professor, they see her as a friend," explained a graduate student in the Counselor Education Program at the Daytona Beach campus, where Driscoll is an assistant professor.

Driscoll doesn't really think of those she teaches as "students," either. "I only teach graduate classes and I look at the people enrolled in the courses as adults with information to share. I learn a lot from them and think of them as peers rather than students."



SETH ELSHEIMER
ARTS & SCIENCES



ROBERTA DRISCOLL
EDUCATION



WALTER TAYLOR
ARTS & SCIENCES

Walter K. Taylor

One UCF alumnus, who is now a veterinarian, complains in a whimsical manner that he can't hurt a fly and that his father thinks he's a wimp because of Walter K. Taylor. Although that may be an exaggeration, many of Taylor's students claim that they learned to respect and protect nature while taking a biology class with him. Taylor, who specializes in the study of birds, influences many of his students beyond the classroom. One of his students who is now a college-level teacher relates using techniques learned from observing Taylor. "I learned that while students need to figure out some things for themselves, they also need constant guidance and encouragement, even in upper division courses."

Taylor's work outside of the classroom often results in improved teaching techniques. He has written what his peers consider an excellent laboratory manual for general zoology, and the publishing firm MacMillan & Co. asked Taylor and several other biology professors to revise one of their well-known lab manuals. Over the years, Taylor and his students have developed an outstanding bird collection with specimens from all over the United States. The collection is used not only by UCF students, but a number of local groups, also. One of Taylor's more recent projects involved producing and filming a video on the ecological habitats on the UCF campus for use in ecology classes.

Donna T. Baumbach

Donna T. Baumbach brings a great deal of acclaim to UCF's College of Education as a result of her ongoing grant work with the Florida Department of Education, according to one of her peers. She has received raves from Commissioner of Education Betty Castor for a number of projects, especially instructional technology. Castor was so impressed with one of her manuals on computer literacy that a copy was distributed to every public school in the State.

Baumbach, a media specialist, has served as the administrator for a Department of Education grant for an instructional computing preview and evaluation center at UCF. The center generates information to State school districts about computers and new technology for instruction.

Baumbach is noted not only for effective use of computers in her own classroom, but for showing others how to improve instruction with high-tech.

Donald Jones

While some professors close their doors to work on research projects and publications, Donald Jones leaves his wide open. This results in a problem, as one of his peers explains. "[His] research time is often sacrificed. His open door, combined with his steady, deliberate manner and sound judgement, have resulted in him acquiring the role of counselor or consultant among students and colleagues alike."

Although Jones would like to spend more time researching, he doesn't turn away his visitors. It is this generosity with his time that has earned him the respect and admiration of his students and colleagues.

Jones, who has taught at UCF since 1972, teaches courses in basic philosophy, ancient and modern philosophy, ethics, critical thinking, and formal logic. With his area of expertise being in analytical philosophy, he challenges students in such courses as philosophy of science and philosophy of mind.



DONNA BAUMBACH
EDUCATION



DONALD JONES
ARTS & SCIENCES

Distinguished Researcher Nominees



ALLYN STEARMAN
ARTS & SCIENCES

Allyn Stearman

Allyn MacLean Stearman had no intentions of becoming an anthropologist when she was a student studying Spanish back in the 1960s at the University of California at Santa Barbara. But following her graduation, she signed on for a stint with the Peace Corps to work in Bolivia. That experience changed the direction of her life: she's never gotten over her love for that country and its people.

When she returned to the United States four years later, she worked part-time on her master's in anthropology while working for the University of Florida as a librarian assistant in Latin Studies. When she won a fellowship, Stearman continued with her education full time to earn a doctorate. She then started work at UCF as an assistant professor.

Over the last 25 years, Stearman has visited South American nine times. As a well-paid consultant, her excursions last for several weeks only, but many of her research trips into the forests to study obscure tribes or to study the migration patterns have extended over longer periods. Her last trip was for 14 months. Stearman has published four books describing her experiences and research.



GEORGE STEVENS
BUSINESS ADMINISTRATION

George Stevens

George Stevens is apparently a man who thinks variety is the spice of life. The management professor currently is juggling almost a dozen research projects on such topics as AIDS awareness, business ethics, and sexual harassment. His prodigious outpouring of work is enough to impress anyone. He has published six books, 60 articles, 70 proceedings and abstracts, and 25 cases, and presented 66 papers. Another seven articles are presently being considered for publication. He has also given numerous talks, a number of them on radio programs.

Yet his spectacular record extends beyond the sheer numbers. He is a research role model for his peers and is recognized nationally for his case book in human resources. Stevens had a particularly good year in 1988: he was a co-recipient of a \$50,000 research grant, and recognized twice for his work as a faculty advisor. He won the Central Florida Personnel Association Faculty Advisory Award and the Student Personnel Faculty Advisor Award.

Kent Williams Institute for Simulation and Training

Kent Williams has been the research manager for UCF's Institute of Simulation and Training (IST) for the past two and a half years, and during that time has brought over \$1 million to the University in the form of contract and grant awards.

Williams is also a program manager for several projects with the Naval Training Systems Center (NTSC) in Research Park. A colleague at NTSC said, "...The Navy has benefitted greatly through the continued creativity, productivity, and professionalism demonstrated by Williams."

As a result of Williams' research in design guidelines for computer-assisted instruction (CAI), a CAI Evaluation Handbook was designed for CAI courseware development. He is developing additional guidelines based on knowledge of human motivation. The guidelines set forth in the Handbook and subsequent guidelines are being distributed for use throughout the Department of Defense.

Ali Alp Kerestecioglu Florida Solar Energy Center

As a research associate at the Florida Solar Energy Center (FSEC), Ali Alp Kerestecioglu has been instrumental in the development of analytical and computer models for several research contracts totaling over \$8.6 million.

His research has led him to create software which is capable of modeling moisture transport in buildings and a code which is capable of solving problems involving simultaneous heat, mass and momentum transport. The significance of these achievements may appear obscure to the layperson, but those in buildings research understand both their complexity and importance. These tools are essential in accurately addressing moisture transport phenomena in buildings. These developments can lead to innovative systems and materials to improve moisture loads and high humidities in Southeastern buildings.

According to David L. Block, director of FSEC, "His ground-breaking work in the area of heat and mass transport in buildings has moved this institute into the national and even international arena of analytical research and computer modeling of complex physical processes."



NARSINGH DEO
ARTS & SCIENCES

Narsingh Deo

The most challenging part of Narsingh Deo's job as a computer science researcher is to design ways to make banks of computers to work together to solve problems with lightning speed. Deo, a native of India, and holder of the Millican chair, has been at UCF for three years. He is in charge of research projects for the Department of Defense and the Florida High Tech Commission worth more than a quarter of a million dollars.

Deo has four Ph.D students working under him and he teaches one course per semester. He is a recognized authority in his field with four books and more than 50 published articles to his credit. Deo also holds three U.S. patents. He has won awards from India's Patna University and NASA.

"My greatest challenge is to design the algorithms that can work in many machines, each one solving a small part of a problem," he said. Before coming to UCF, Deo spent nine years teaching at Washington State University; six years at the Indian Institute of Technology as well as holding down jobs at NASA's Jet Propulsion Laboratory and Burroughs Corp.



KENT WILLIAMS
INSTITUTE FOR SIMULATION
& TRAINING



S. S. KUO
ENGINEERING

Shio-San Kuo

Balancing three major research projects, teaching, and directing a group of graduate assistants is one reason why Shio-San Kuo is a nominee for Researcher of the Year from the College of Engineering.

Kuo, born in Taiwan, came to UCF in 1981. Since that time he has become a very valuable asset to the University through his research work involving the design and testing of bridge expansion joints, the development of software for a computerized bridge inspection process and the use of ground penetration radar, a complex technology that can be used to detect sinkholes.

"I have a lot of ideas and I like to create new ideas to solve problems. I'm very motivated," says Kuo. He said his graduate students all share the work on projects and work as a team. David R. Jenkins, chair of the department of civil engineering, has this to say about Kuo: "He has the ability to take control of very complex systems and put them in terms his students can easily understand."

Photo
not available

ALI A. KERESTICIOGLU
FLORIDA SOLAR ENERGY CENTER

Distinguished Researcher Nominees

Louis Acierno

When he decided to write a book about what he knows best, Dr. Lou Acierno tackled the task with the same kind of zest he displays in the research projects he has undertaken since joining the UCF faculty nine years ago. Fifteen weeks after he began writing *The Human Machine: How It Breaks Down*, he was finished.

As the only physician on the College of Health faculty, he has what he describes as "the best of two worlds. I can practice my profession in an academic setting; being able to teach, and able to continue my clinical investigative work."

This 1944 graduate of Georgetown University medical school is a cardiologist first. His research at UCF, funded for the most part by major pharmaceutical companies, traces his interest in the effect of medication in cardiovascular disease. The most recent of his many publications, due out this month, concerns pulmonary and cardiac complications of AIDS.

"His presence and guidance...have helped many junior faculty...to apply themselves to research and publication," declared a member of that faculty. "He exhibits an exciting flare for the art



LOUIS ACIERNO
HEALTH

and science of research."

Along with his myriad duties, which include directorship of clinical research at the Florida Heart Group, in Orlando, he currently is collecting data on the effects of chronic exercise on heart function and cholesterol. "Exercise," he declared, "is not a panacea."

Karen Biraimah

While she's written prodigiously on subjects such as the effects of gender and socio-economic status upon education and careers, and the global perspectives of computer software in schools, this year's Distinguished Researcher nominee from the College of Education could write a more personal insight to higher education that has all the makings of a thriller.

The place was Togo, the time 1979. It was a busy time for Karen Biraimah, who was doing doctoral research in the midst of political upheaval. "People were being killed, and their bodies thrown in the road." It was an experience shared with her sons, 3 years and 3 months old at the time, who have since accompanied her to other far-away places in the pursuit of knowledge.

She is no stranger to Africa. She spent a summer there as an undergraduate at Lewis & Clark College, and served two years in Ghana as a Peace Corps volunteer teacher following graduation in 1967. After obtaining her doctorate from SUNY/Buffalo, in 1982, she lectured at the University of Ife in Nigeria. Her studies in comparative education have long fired her interest in Third World countries.



KAREN BIRAIMAH
EDUCATION

This summer, she will deliver findings on educational computer software to the VII World Congress of Comparative Education, meeting in Montreal. Lying ahead are planned journeys to Thailand and Singapore and later to Kuwait, in order to study the progress of women students in male-dominated societies.

Spring '89 Top GPA Students



JOE PENDERGRASS
ENGINEERING



CURTIS HEFFELFINGER
LIBERAL STUDIES



DEBRA GLENFIELD
EDUCATION



DEBRA CICHRA
HEALTH



GRACE PUPPELLO
EDUCATION



VANN PRIME
ARTS & SCIENCES



RENEE MAINES
BUSINESS ADMINISTRATION



CHER RAKES
ARTS & SCIENCES

1989 winner of award for Librarianship



Phyllis Hudson

"The Library would do itself a favor if it could find a way to clone the knowledge, helpfulness, and dedication of Phyllis Hudson," Thus reads an endorsement for the Librarian of the Year from a longtime member of the faculty.

In the 17 years she has served the UCF Library, Phyllis Hudson has earned the eternal gratitude of faculty and students for her skills as a ready resource. To many she has been the voice of the reference department. Or, as a peer declared, "...she has set a standard of achievement toward which department members strive. Her analytical and research skills are transferred to the patron with concern, compassion and creativity."

She also is known as a person capable of juggling a lot of activities at the same time. In addition to being the chief architect of what has been described as the Library's "extraordinarily effective educational program," she finds time to serve actively on professional association state and national boards and committees, and has long carried the banner of United Faculty of Florida.

Said Anne Marie Allison, Director of Libraries: "If I had to select one word to describe her, it would be caring."

The UCF Report

The UCF Report is published biweekly by the Department of Public Affairs, Division of University Relations, University of Central Florida, P.O. Box 25,000, Orlando, FL 32816, (407) 275-2504, in conformity with state laws, at a cost of 27.2 cents per copy. Publication of announcements and official memoranda about University policy and procedures in The UCF Report constitutes official notice to faculty and staff. This Special Honors' Day Edition was produced by the Staff of The Public Affairs Department-Dean McFall, Director Bill Daum, Special Edition Editor